AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A data processing apparatus, comprising:

an input portion;

an output portion;

a plurality of compressing/expanding devices which that compress data-to-beoutput outputted that is inputted from said input portion and expand compressed data-to-be-output outputted;

a file memory which stores said <u>compressed</u> data-to-be-<u>output</u> outputted, the <u>data-to-be output being</u> compressed by some or all of said plurality of compressing/expanding devices;

a data discrimination portion which discriminates whether said <u>input</u> data-tobe-<u>output</u> outputted inputted from said input portion is data including a small amount of information or a large amount of information; and

a transfer controller,

wherein, in cases where it is discriminated by said data discrimination portion that said data-to-be-<u>output</u> outputted is data including a small amount of information, said transfer controller transfers said data-to-be-<u>output</u> outputted to said output portion through <u>less than all of</u> said plurality of compressing/expanding devices operating in parallel, and

wherein, in cases where it is discriminated by said data discrimination portion that said data-to-be-<u>output</u> outputted is data including a large amount of information, said transfer controller transfers said data-to-be-<u>output</u> outputted to <u>at least some</u> some or all of said plurality of compressing/expanding devices while transferring said data-to-be-outputted to said output portion.

2. (Currently Amended) The data processing apparatus as recited in claim1, further comprising a compressing/expanding controller,

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a small amount of information, said compressing/expanding controller assigns some of said plurality of compressing/expanding devices to compressing operation and assigns some or all of the other of said plurality of compressing/expanding devices to expanding operation, and

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a large amount of information, said compressing/expanding controller assigns all of said plurality of compressing/expanding devices to compressing operation at the time of compressing said data-to-be-<u>input</u> inputted and to expanding operation at [[the]] <u>a</u> time of expanding said data-to-be-<u>output</u> outputted.

3. (Currently Amended) The data processing apparatus as recited in claim 2, further comprising an output discrimination portion which discriminates whether an outputting operation of said output portion is a first set of outputting operation or a second or subsequent set of outputting operation,

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a small amount of information, if it is discriminated by said output discrimination portion that said outputting operation of said output portion is a first set of-outputting operation, said transfer controller transfers said data-to-be-<u>output</u> outputted input inputted from said input portion to a file memory through some of said plurality compressing/expanding devices assigned to <u>a</u> compressing operation and further transfers said data-to-be-<u>output</u> outputted to said output portion through some or all at least some of the other of said plurality of compressing/expanding devices assigned to the expanding operation, and if it is discriminated by said output discrimination portion that an outputting operation of said output portion is a second or subsequent set of-outputting operation, said transfer controller transfers compressed data-to-be-<u>output</u> outputted stored in said file memory to said output portion through said some or all of the other of said plurality of compressing/expanding devices assigned to expanding operation, and

wherein, in cases where said data-to-be-<u>output</u> eutputted is data including a large amount of information, if it is discriminated by said output discrimination portion that said outputting operation of said output portion is a first set-of-outputting operation, said transfer controller transfers said data-to-be-<u>output</u> eutputted that is input inputted from said input portion to a file memory through all of said plurality compressing/expanding devices assigned to compressing operation while transferring said data-to-be-<u>output</u> eutputted to said output portion, and if it is discriminated by said output discrimination portion that said outputting operation of said output portion is a second or subsequent set of-outputting operation, said transfer controller transfers compressed data-to-be-<u>output</u> eutputted stored in said

Attorney's Docket No. 1032567-000018

Application No. 10/622,462

Page 5

file memory to said output portion through all of said plurality of compressing/expanding devices assigned to expanding operation.

- 4. (Currently Amended) The data processing apparatus as recited in claim 1, wherein said data-to-be-output outputted including a small amount of information is monochrome data and said data-to-be-output outputted including a large amount of information is color data, and wherein said data discrimination portion discriminates whether said data-to-be-output outputted is said monochrome data or said color data.
- 5. (Currently Amended) The data processing apparatus as recited in claim 1, wherein said data-to-be-output outputted including a small amount of information is binary data and said data-to-be-output outputted including a large amount of information is multi-valued data, and wherein said data discrimination portion discriminates whether said data-to-be-output outputted is said binary data or said multi-valued data.
- 6. (Original) The data processing apparatus as recited in claim 5, wherein said binary data includes binarized color data.
- 7. (Currently Amended) The data processing apparatus as recited in claim 2, wherein, in cases where said data-to-be-<u>output</u> outputted is data including a small amount of information, said compressing/expanding controller further changes

operational assignment of said plurality of compressing/expanding devices depending on an amount of information.

8. (Currently Amended) A data processing method, comprising: discriminating whether data-to-be-<u>output</u> outputted is data including a small amount of information or a large amount of information;

executing <u>a</u> compressing operation of said data-to-be-<u>output</u> outputted and expanding operation of compressed data-to-be-<u>output</u> outputted by <u>less than all of</u> a plurality of compressing/expanding devices operating in parallel, and thereafter executing <u>an</u> outputting operation of <u>on the</u> expanded data-to-be-<u>output</u> outputted in cases where it is discriminated that said data-to-be-<u>output</u> outputted is data including a small amount of information; and

executing the compressing operation of said data-to-be-output outputted while executing the outputting operation of said data-to-be-output outputted in cases where it is discriminated that said data-to-be-output outputted is data including a large amount of information.

9. (Currently Amended) The data processing method as recited in claim 8, wherein, in cases where it is discriminated that said data-to-be-<u>output</u> eutputted is data including a small amount of information, some of said plurality of expanding/compressing devices are assigned to <u>the</u> compressing operation and some or all of the other of said plurality of <u>the</u> expanding/compressing devices are assigned to expanding operation, and

wherein, in cases where it is discriminated that said data-to-be-<u>output</u>

eutputted is data including a large amount of information, all of said plurality of
expanding/compressing devices are assigned to <u>the</u> compressing operation at the
time of compressing said <u>a</u> data-to-be-<u>input</u> inputted and to <u>the</u> expanding operation
at [[the]] <u>a</u> time of expanding said data-to-be-<u>input</u> inputted.

10. (Currently Amended) The data processing method as recited in claim 9, wherein it is discriminated whether said outputting operation is a first set of outputting operation or <u>a</u> second or subsequent set of outputting operation,

wherein, in cases where said data-to-be-<u>output</u> eutputted is data including a small amount of information, if it is discriminated that said outputting operation is a first set of-outputting operation, said inputted data-to-be-<u>output</u> eutputted is transferred to a file memory through some of said plurality compressing/expanding devices assigned to compressing operation and then eutputted <u>output</u> through some or all of the other of said plurality of compressing/expanding devices assigned to expanding operation, and if it is discriminated that said outputting operation is a second or subsequent set of outputting operation, said compressed data stored in said file memory is <u>outputted output</u> through said some or all of the other of said plurality of compressing/expanding devices assigned to <u>the</u> expanding operation, and

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a large amount of information, if it is discriminated that said outputting operation is a first set of outputting operation, inputted input data-to-be-<u>output outputted</u> is transferred to a file memory through all of said plurality compressing/expanding

Attorney's Docket No. 1032567-000018 Application No. 10/622,462

Page 8

devices assigned to compressing operation while transferring said data-to-be-<u>output</u> outputted to an output portion, and if it is discriminated that said outputting operation is a second or subsequent set of outputting operation, compressed data stored in said file memory is transferred to said output portion through all of said plurality of

compressing/expanding devices assigned to expanding operation.

- 11. (Currently Amended) The data processing method as recited in claim 8, wherein said data-to-be-<u>output</u> outputted including a small amount of information is monochrome data and said data-to-be-<u>output</u> outputted including a large amount of information is color data, and wherein data discrimination is performed by discriminating whether said data-to-be-<u>output</u> outputted is said monochrome data or said color data.
- 12. (Currently Amended) The data processing method as recited in claim 8, wherein said data-to-be-<u>output</u> outputted including a small amount of information is binary data and said data-to-be-<u>output</u> outputted including a large amount of information is multi-valued data, and wherein data discrimination is performed by discriminating whether said data-to-be-<u>output</u> outputted is said binary data or said multi-valued data.
- 13. (Original) The data processing method as recited in claim 12, wherein said binary data includes binarized color data.

14. (Currently Amended) The data processing method as recited in claim 9, wherein, in cases where said data-to-be-<u>output outputted</u> is data including a small amount of information, operational assignment of said plurality of compressing/expanding devices is changed depending on an amount of information.

15. (Currently Amended) An image forming apparatus, comprising:

a scanner which outputs an original image by converting into electronic data with a photoelectric transferring element;

an input port which receives a print job from an external device including a computer and a facsimile apparatus;

an input adjusting portion which receives a scanned image job outputted from said scanner and a print job inputted into said input port;

a plurality of compressing/expanding devices which compress data-to-beoutput outputted included in a job inputted from said input adjusting portion and expand compressed data-to-be-output outputted;

a storage which stores said compressed data-to-be-output outputted;

a printer which prints out data-to-be-output outputted, said data-to-be
outputted being included in said print job or said scanned image job on a sheet;

a data discrimination portion which discriminates whether said data-to-beoutput outputted is data including a small amount of information or a large amount of information; and

a transfer controller,

wherein, in cases where it is discriminated by said data discrimination portion that said data-to-be-<u>output</u> outputted is data including a small amount of information, said transfer controller transfers said data-to-be-output outputted to said printer

through <u>less than all of</u> said plurality of compressing/expanding devices operating in

parallel, and

wherein, in cases where it is discriminated by said data discrimination portion that said data-to-be-<u>output</u> outputted is data including a large amount of information, said transfer controller transfers said data-to-be-<u>output</u> outputted to <u>at least</u> some or all of said plurality of compressing/expanding devices while transferring said data-to-be-<u>output</u> outputted to <u>said</u> <u>an</u> output portion.

16. (Currently Amended) The image forming apparatus as recited in claim15, further comprising a compressing/expanding controller,

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a small amount of information, said compressing/expanding controller assigns some of said plurality of compressing/expanding devices to compressing operation and assigns some or all of the other of said plurality of compressing/expanding devices to expanding operation, and

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a large amount of information, said compressing/expanding controller assigns all of said plurality of compressing/expanding devices to compressing operation at [[the]] <u>a</u> time of compressing said <u>a</u> data-to-be-inputted and assigns all of said plurality of compressing/expanding devices to expanding operation at the time of expanding said data-to-be-<u>output</u> outputted.

17. (Currently Amended) The image forming apparatus as recited in claim 16, further comprising an output discrimination portion which discriminates whether an outputting operation of said printer is a first set of outputting operation or a second or subsequent set-of-outputting operation,

wherein, in cases where said data-to-be-output eutputted is data including a small amount of information, if it is discriminated by said output discrimination portion that said outputting operation of said printer is a first set-of-outputting operation, said transfer controller transfers said data-to-be-output outputted to said storage through some of said plurality compressing/expanding devices assigned to a compressing operation and further transfers said data-to-be-output outputted to said printer through some or all of the other of said plurality of compressing/expanding devices assigned to expanding operation, and if it is discriminated by said output discrimination portion that said output from said printer is a second or subsequent set-of-output, said transfer controller transfers compressed data-to-be-output outputted stored in said storage to said printer through said some or all of the other of said plurality of compressing/expanding devices assigned to expanding operation, and

wherein, in cases where said data-to-be-<u>output</u> outputted is data including a large amount of information, if it is discriminated by said output discrimination portion that said outputting operation of said printer is a first set of outputting operation, said transfer controller transfers said data-to-be-<u>output outputted</u> to said storage through all of said plurality compressing/expanding devices assigned to compressing operation while transferring said data-to-be-output outputted to said printer, and if it

Attorney's Docket No. 1032567-000018

Application No. 10/622,462

Page 12

is discriminated by said output discrimination portion that said outputting operation of

said printer is a second or subsequent set of outputting operation, said transfer

controller transfers compressed data-to-be-output outputted stored in said storage to

said printer through all of said plurality of compressing/expanding devices assigned

to expanding operation.

18. (Currently Amended) The image forming apparatus as recited in claim

15, wherein said data-to-be-output outputted including a small amount of information

is monochrome data and said data-to-be-output outputted including a large amount

of information is color data, and wherein said data discrimination portion

discriminates whether said data-to-be-output outputted is said monochrome data or

said color data.

19. (Currently Amended) The image forming apparatus as recited in claim

15, wherein said data-to-be-output outputted including a small amount of information

is binary data and said data-to-be-output outputted including a large amount of

information is multi-valued data, and wherein said data discrimination portion

discriminates whether said data-to-be-output outputted is said binary data or said

multi-valued data.

20. (Original) The data processing apparatus as recited in claim 19, wherein

said binary data includes binarized color data.

21. (Currently Amended) The data processing apparatus as recited in claim 16, wherein, in cases where said data-to-be-<u>output outputted</u> is data including a small amount of information, said compressing/expanding controller further changes operational assignment of said plurality of compressing/expanding devices depending on an amount of information.